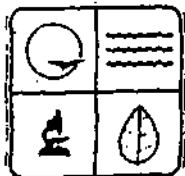


Co 5001P



3.600 St. Louis County
West Lake Sanitary Landfill

May 14, 1981

Site:	West Lake #12
ID #	MBDO799/0932
Break:	17.8
Other:	
5-14-81	

Mr. William J. McCullough, President
West Lake Landfill, Incorporated
13570 St. Charles Rock Road
Bridgeton, MO 63044

Dear Mr. McCullough:

An annual inspection was made of the condition and operation of the West Lake Sanitary Landfill, St. Louis County, Missouri, on April 9, 1981. The recommendations contained in this report are based on the findings made at the time of the investigation. I trust that you will direct your attention to these findings and that you will proceed to carry out the recommendations presented.

FINDINGS:

1. The daily operation was proceeding in a reasonable manner.
2. Final covering and grading of finished fill areas has not been completed.
3. Modifications of the leachate treatment/disposal system are planned.
4. Specific odor control contingency plans are being implemented.

DISCUSSION:

At the time of inspection, the daily operation was being conducted in the approximately 6 acre gap in the overall West Lake property, covered by permit #118908. The remaining life expectancy of the permitted landfill was estimated at this time to be only another couple of months.

The finished landfill region covered by permit #118906 still needs to be covered in its entirety with the minimum required 2 foot depth of soil. Existing low spots should be restored to grade, and the overall area surveyed to confirm that a good minimum slope of at least 2% exists, to promote proper surface drainage. The entire area should then be seeded to secure against erosion.

It was noted that the west bank of the older landfill sector covered by permit #118903 has been re-graded to a more acceptable 3:1 slope for the most part. It is recommended that this work be extended along the entire perimeter of the site where needed, so as to stabilize the bank at all points from erosion and possible collapse. The need for such stabilization work

40241259



SUPERFUND RECORDS

Christopher S. Bond Governor
Fred A. Laiser Director
St. Louis Regional Office

DNK 0083

MISSOURI DEPARTMENT OF NATURAL RESOURCES
8460 Watson Road St. Louis, Missouri 63119 (314) 849-1313

3,600 St. Louis County
West Lake Sanitary Landfill
May 14, 1981
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was previously noted during the geologic survey conducted last fall, particularly at the far northwest corner of the site which constitutes the oldest landfill region, prior to state regulation. Likewise, the visibility to the public trasversing St. Charles Rock Road of the entire length of the north perimeter bank argues for extension of this stabilization project.

A proposal has been made to construct temporary leachate holding basins in an area to the south of the landfill and west of old St. Charles Rock Road. This plan is intended to provide storage capacity for the huge volume of leachate presently pooled in the part of the quarry known as Black Diamond Lake, until it can all be handled by the treatment system. Pumping the leachate to such holding basin, coupled with resumption of regular pumping from the collection wells, should effectively eliminate the "lake". Since the time of inspection, this proposal has been discussed further between representatives of West Lake, the consulting engineer, and Department staff. Detailed plans and specifications on the system should be prepared and submitted to this office for review, and the necessary approvals obtained prior to any basin construction.

Odor control measures were again discussed during the inspection. The consulting engineer had previously advised on the strategy that would be attempted this year to combat the problem. Step 1 of the plan calls for completion of final cover over finished landfill areas as already addressed herein. Step 2 entails experimental application of specific odor reducing agents to the surface of the pooled leachate presently contained in Black Diamond Lake, and which may have to be continued in the storage basins if they are approved. Step 3 involves installation of a decomposition gas burner at the inlet end of the storm water collector pipe located along the east quarry rim at the south end of Taussig Road. This office expects the necessary work will continue on each of these fronts so that odors from the entire site are kept to a minimum at all times.

RECOMMENDATIONS:

1. Continue the good daily landfill operation as observed.
2. Complete final covering, grading and seeding of all finished landfill areas. Stabilize the perimeter slope around the entire site.
3. Secure the necessary approvals before constructing the temporary leachate holding basins.
4. Take all necessary steps to minimize odors from the site.

3.600 St. Louis County
West Lake Sanitary Landfill
May 14, 1981
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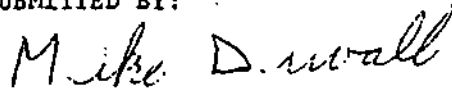
Should you have any questions concerning this report, contact
Mike Duvall of the St. Louis Regional Office.

APPROVED:




Earl F. Holtgraewe, P.E.
Regional Administrator
St. Louis Regional Office
Department of Natural Resources

SUBMITTED BY:



Mike Duvall
Environmental Specialist II
St. Louis Regional Office
Department of Natural Resources

EFH/MD/be

cc Reitz & Jens, Inc.
St. Louis County Department Community Health & Medical Care
City of Bridgeton
Central Office, Solid Waste Management Program 

Enclosure

MISSOURI DEPARTMENT OF NATURAL RESOURCES

DIVISION OF ENVIRONMENTAL QUALITY

A: 11 Inspection ☒
Remediation ☐

SANITARY LANDFILL SURVEILLANCE RECORD

Date: 4 - 9 - 81 Days/Week Open: 6

Name of Sanitary Landfill: West Lake S.L.F., Inc.

Permit No: 118906, 118908 County: St. Louis

Owner: West Lake S.L.F., Inc. Operator: Mr. Vernon F. Ehr

Address: Rte. 1, P.O. Box 206 Address: 13570 St. Charles Rock Rd.
Bridgeton, MO 63042 Bridgeton, MO 63044
(314) 739 1122

I. Special Conditions and Approved Modifications

- A. Are there any special conditions or approved modifications of the satisfactory compliance subsections of the rules and regulations? (e.g. impermeable barrier, limited excavation, exceptions to daily cover requirements)
☒ Yes ☐ No
- B. Is the sanitary landfill operation in compliance with the special conditions or approved modifications? (If "No," describe violations under "REMARKS.")
☒ Yes ☐ No

II. Check Types of Waste Accepted

	INDICATED ON PERMIT APPLICATION	REPORTED BY OPERATOR	AS OBSERVED
Municipal solid waste	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bulky waste			
Dead animals			
Incinerator residue			
Demolition and construction waste	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Brush and untreated wood waste			
Septic tank pumpings			
Wastewater treatment plant sludges			
OTHER SLUDGES (SPECIFY)			
LIQUIDS (SPECIFY)			
INDUSTRIAL PROCESS WASTES (SPECIFY)			
HAZARDOUS WASTES (SPECIFY)			
OTHER WASTES (SPECIFY)			

III. Remaining Life of Landfill

- A. Estimated amount of solid waste coming through gate.
 Compacted loads ~12,000 yds/wk _____ tons/wk
 Noncompacted loads ~300 yds/wk _____ tons/wk
- B. Estimated volume of remaining landfill covered by approved engineering plans.
 _____ acre feet 2 months years

INSPECTION FORM
DISTRIBUTION LIST

Owner ☒

Operator ☒

City _____

County Court _____

Consulting Engineer ☒

Solid Waste Program ☒

Regional Office File ☒

Others City of Bridgeton

IV. Satisfactory Compliance Subsections Regulations 80-3.010

Check all subsections: SAT — Satisfactory; UNS — Unsatisfactory. (If necessary descr. "UNS" violations under "Remarks.")

SUBSECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
(2) SOLID WASTE ACCEPTED			
(2)(C)2	Bulky solid waste crushed on solid ground and pushed onto working face near bottom of the cell.	+	
(2)(C)3	Small dead animals covered immediately with soil or solid waste. Large dead animals placed in pit and covered with four feet compacted soil.	+	
(2)(C)4	Disposal of dewatered sludges on working face along with municipal solid waste.	+	
(2)(C)5	Incinerator and air pollution control residues prevented from becoming airborne.	+	
(3) SOLID WASTE EXCLUDED			
(3)(C)1	No unpermitted waste accepted.	X	
(3)(C)2	Sign posted at entrance listing excluded wastes.	X	
(4) SITE SELECTION			
(4)(C)1	Site accessible in all weather conditions. Temporary roads provided for delivery to working face.	X	
(6) WATER QUALITY			
(6)(C)1	Surface water courses and runoff properly diverted from the landfill. Sanitary landfill construction and grading to promote rapid surface water runoff without excessive erosion.		+
(6)(C)2	Leachate collection and treatment systems utilized where necessary to protect ground and surface water resources.	X	
(6)(C)3	No ground or surface water in contact with solid waste.	X	
(7) AIR QUALITY			
(7)(C)	No open burning without written permission of the proper air pollution agency and the Division.	X	
(8) GAS CONTROL			
(8)(C)	Implementing decomposition gas control plan as necessary to prevent problems.	X	
(9) VECTORS			
(9)(C)	Vector control programs implemented when necessary to prevent or rectify vector problems.	+	
(10) AESTHETICS			
(10)(C)1	Litter control devices utilized near working face and elsewhere as needed. Litter collected from fences, and the ground surface, and incorporated into the daily cell at the end of each day or containerized.	X	
(10)(C)2	Wastes easily moved by wind covered as necessary to prevent their becoming airborne and scattered.	X	
(10)(C)3	On-site vegetation and natural windbreaks being utilized to improve appearance and operation of the sanitary landfill.		+

SUBSECTION NUMBER	SATISFACTORY COMPLIANCE OPERATING PROCEDURE	SAT	UNS
(10) AESTHETICS (Continued)			
(10)(C)4	Salvaged materials removed daily or stored in aesthetically acceptable containers or enclosures.	X	
(11) COVER MATERIAL			
(11)(C)1	Daily cover applied regardless of weather in not less than a six inch layer. Cover material available in all weather conditions.	X	
(11)(C)2	Intermediate cover applied to all areas idle for more than 60 days in a layer not less than one foot after compaction.		X
(11)(C)3	Final cover applied on each area as completed in a layer not less than two feet after compaction.		X
(12) COMPACTION			
(12)(C)1	Adequate equipment on-site, operated daily.	X	
(12)(C)1A	Solid waste spread in layers not to exceed two feet and confined to smallest practical area.	X	
(12)(C)1B	Wastes compacted to smallest practical volume.	X	
(12)(C)1C	Cover material compacted as much as practical.	X	
(12)(C)2	Preventive maintenance performed.	X	
(12)(C)3	Daily task operating manual provided.	X	
(13) SAFETY			
(13)(C)1	Fire extinguishers provided on oil equipment.	X	
(13)(C)2	Provisions for extinguishing fires in waste, equipment, and structures.	X	
(13)(C)3	Communication equipment available.	X	
(13)(C)4	Scavenging prohibited.	X	
(13)(C)5	Controlled access to site by established roadways and limited to hours when operating personnel are on duty.	X	
(13)(C)6	Traffic controlled and directed to designated disposing points.	X	
(13)(C)7	Site dust controlled for safety purposes and to prevent nuisances.	X	
(14) RECORDS			
(14)(C)1A	Records of major problems and complaints.		+
(14)(C)1B	Monitoring record maintained.	X	
	a. leachate sampling and analyses.	X	
	b. gas sampling and analyses.	X	
(14)(C)1C	Records of vector control efforts.		+
(14)(C)1D	Records of dust and litter control efforts.		+
(14)(C)1E	Records of quantity of waste handled.	X	
(14)(C)1F	Records of description, sources, and volume of special wastes listed in Subsection (3)(A).		+

V. Operation Proceeding in Accordance with Approved Engineering Plans? (If "NO," describe violations under "Remarks.")

X Yes No

REMARKS See attached narrative report.
Robbie Robinson was also present during this inspection.

(Attach additional sheets as necessary.)

BY Mike D. Wall
 SIGNATURE OF INVESTIGATOR